

U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460

83100-37

EPA Reg. Number:

Date of Issuance:

10/21/2014

NOTICE OF PESTICIDE:

X Registration
Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Dicamba 600 + Nico 150 SG

Name and Address of Registrant (include ZIP Code):

Rotam Agrochemical Company Ltd. 7/F Cheung Tat Center No. 18 Cheung Lee Street Chaiwan, Hong Kong c/o

Wagner Regulatory Associates, Inc. P.O. Box 640 Hockessin, DE 19707

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/registration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Date:

10/21/2014

Kathryn V. Montague, Product Manager 23

Herbicide Branch,

Registration Division (7505P)

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- 2. You are required to comply with the DCI identified below:
 - a. Nicosulfuron GDCI-129008-1250, issued on 04/09/2013

You must comply with all of the data requirements within the deadlines established by the order. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: http://www.epa.gov/oppsrrd1/contacts_prd.htm

- 3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 83100-37."
- 4. Submit one copy of the final printed label for the record before you release the product for shipment.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 03/13/2014
- Alternate CSF #1 dated 03/13/2014

If you have any questions, please contact Beth Benbow at (703) 347-8072 or benbow.bethany@epa.gov.

Kathryn V. Montague, Product Manager 23

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Herbicide Branch

Registration Division (7505P)

Attachment

GROUP

2 & 4

HERBICIDE

Dicamba 600 + Nico 150 SG

Granular formulation for use on field corn, seed corn and popcorn

Active Ingredients:	
Sodium salt of dicamba* (3,6-dichloro-o-anisic acid)	66.00 %
Nicosulfuron**	15.00 %
Other Ingredients:	19.00 %
Total:	100.00%

ACCEPTED

10/21/2014

I U/Z I/ZU I 4 Under the Federal Insecticide, Fungicide

and Rodenticide Act as amended, for the pesticide registered under

" 83100-37

CAUTION FIRST AID

FIRST AID				
IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice.			
	Have person sip a glass of water if able to swallow.			
	DO NOT induce vomiting unless told to do so by a poison control center or			
	doctor.			
	DO NOT give anything by mouth to an unconscious person.			
IF INHALED:	Move person to fresh air.			
	If person is not breathing, call 911 or an ambulance, then give artificial			
	respiration, preferably mouth-to-mouth if possible.			
	Call a poison control center or doctor for further treatment advice.			
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.			
	Remove contact lenses, if present, after first 5 minutes, then continue rinsing			
eye.				
	Call a poison control center or doctor for treatment advice.			
IF ON SKIN OR	Take off contaminated clothing.			
CLOTHING:	Rinse skin immediately with plenty of water for 15 to 20 minutes.			
	Call a poison control center or doctor for treatment advice.			
HOTLINE NUMBER				
For medical emergencies call the Poison Control Center 1-800-222-1222. Have the product				

For medical emergencies call the **Poison Control Center 1-800-222-1222**. Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

EPA Reg. No.83100	EPA Est. No.:
Net contents:	

Manufactured by:

Rotam Agrochemical Company Ltd. 7/F Cheung Tat Center No. 18 Cheung Lee Street Chaiwan, Hong Kong

^{*}This product contains 60% of Dicamba acid.

^{**}CASRN 111991-09-4

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION. Harmful if swallowed, inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls Statement

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides 40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. **Do not** contaminate water when disposing of equipment rinse water. **Do not** apply where/when conditions could favor runoff.

This chemical is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Ground and Surface Water Protection

<u>Point source contamination:</u> To prevent point source contamination, **do not** mix, load this pesticide product within 50 feet of wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. **Do not** apply pesticide product within 50 feet of wells. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas as described below.

Mixing, loading, rinsing, or washing operations performed within 50 feet of a well are allowed only when conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be on or move across the pad. The pad must be self-contained to prevent surface water flow over or from the pad. The pad capacity must be maintained at 110% that of the largest pesticide container or application equipment used on the pad and have sufficient capacity to contain all product spills, equipment or container leaks, equipment wash waters, and rainwater that may fall on the pad. The containment capacity does not apply to vehicles delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

Care must be taken when using this product to prevent:

- a) back Siphoning into wells,
- b) spills, or
- c) improper disposal of excess pesticide, spray mixtures or rinsates.

Check valves or anti-siphoning devices must be used on all mixing equipment.

<u>Movement by surface runoff or through soli:</u> Do not apply under conditions which favor runoff. Do not apply to impervious substrates such as paved or highly compacted surfaces in areas with high potential for ground water contamination. Ground water contamination may occur in areas where soils are permeable or coarse and ground water is near the surface. Do not apply to soils classified as sand with less than 3% organic matter and where ground water depth is shallow. To minimize the possibility of ground water contamination, carefully follow application rate restrictions.

<u>Movement by water erosion of treated soil:</u> Do not apply or incorporate this product through any type of irrigation equipment nor by flood or furrow irrigation. Ensure treated areas have received at least one half inch rainfall (or irrigation) before using tailwater for subsequent irrigation of other fields.

Endangered Species Concerns

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the county or parish in which you are applying the pesticide. To determine whether your county or parish has a bulletin, and to obtain that bulletin, consult *Bulletins Live!* at http://www.epa.gov/espp/ no more than 6 months before using this product. Applicators must use bulletins that are in effect in the month in which the pesticide will be applied. New bulletins will generally be available 6 months prior to their effective dates.

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. **Do not** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers' agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of <u>24 hours</u>. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that Involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls worn over short-sleeved shirt and short pants
- Protective evewear
- Chemical-resistant gloves made of any waterproof material
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure

Unless otherwise directed in supplemental labeling, all applicable directions, restrictions, precautions and **Conditions of Sale and Warranty** are to be followed. This labeling must be in the user's possession during application.

Storage and Disposal

DO NOT contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store in original containers only. Keep container closed when not in use. **DO NOT** store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to label.

Pesticide Disposal: Wastes resulting from using this product may be disposed of on-site or at an approved waste disposal facility. If these wastes cannot be disposed of according to label instructions, contact your state pesticide agency or environmental control agency, or the Hazardous Waste representatives at the nearest EPA Regional Office for guidance.

Container Handling

Nonrefillable Container: DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity < 50 pounds) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple rinse containers too large to shake (capacity > 50 pounds) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

In Case of Emergency

In case of large-scale spillage regarding this product, call: CHEMTREC 800-424-9300

Steps to be taken in case material is released or spilled:

Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Keep the spill out of all sewers and open bodies of water.

Product Information

This product is intended for postemergence control of a wide spectrum of broadleaf weeds and grasses in field corn including high lysine, waxy, white, or other food-grade corn hybrids (refer to **Table 2. Weeds Controlled**).

Mode of Action

This product is composed of two active ingredients each with a different mode of action. The nicosulfuron component inhibits acetolactate synthase which is a key enzyme in the biosynthesis of branched chain amino acids and is the primary component for grass control. The dicamba component is an auxin antagonist which is the mode of action for broadleaf weed control.

Crop Sensitivity

Many crops are highly sensitive to dicamba and to nicosulfuron. All direct or indirect contact (such as spray drift) with crops other than field corn must be avoided. Corn is generally not sensitive to application of dicamba and/or nicosulfuron. Temporary injury may occur under conditions of crop stress or rapid growth. Crop stress can be caused by drought, poor fertility, other pesticides (i.e. other herbicides) or foliar damage due to hail, wind or insects. Injury can be avoided by agronomic practices that promote good crop growth and minimize stress conditions and especially combinations of stress factors. Crop leaning may occur during periods of rapid growth, but is usually temporary and dissipates within 7 days without subsequent yield reduction.

Corn growing under stress conditions such as drought, poor fertility, or foliar damage due to hail, wind or insects, can exhibit various injury symptoms that may be more pronounced if herbicides are applied.

Soil Insecticide Interaction Information

Before using this product, ensure that it is compatible with any soli insecticides previously applied to the corn crop (refer to use advisories given in **Table 1.**).

Table 1. Use Advisory due to interaction with corn soil Insecticides on conventional Field Corn or				
Imidazolinone Tolerant (IT) Hybrids.				
Soil Insecticides Application Method for Soil Insecticide Use Advisory				
Counter® 15G	All labeled methods	Do not use		
Counter® CR	In furrow at planting, over row at cultivation	Do not use		
Counter® CR	T-band or Surface band	No Use Limitation		
Lorsban [®]	All label methods	No Use Limitation		
Thimet [®]	imet® All label methods No Use Limitation			
Fortress®, Aztec®, and other non-	All	No Use Limitation		
organophosphates				

Herbicide-Tolerant Field Corn

This product may be used on fields treated with **Counter® 15G or Counter® CR** (applied In-furrow, T- or surface-banded) if the field has been planted with an imidazolinone-resistant ("IR" or "IMR") hybrid corn such as **Pioneer 3377 IR**, **Pioneer 3180 IR**, etc.

Weed Resistance Management

When herbicides with the same mode of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant weed biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. These resistant weed biotypes may not be adequately controlled. Cultural practices such as tillage, preventing weed escapes from going to seed, and using herbicides with different modes of action within and between crop seasons can aid in delaying the proliferation and possible dominance of herbicide resistant weed biotypes.

Research has demonstrated that using the labeled rate and directions for use is important to delay the selection for resistance. Scouting after a herbicide application is important because it can facilitate the early identification of weed shifts and/or weed resistance and thus provide direction on future weed management

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practices. One of the best ways to contain resistant populations is to implement measures to avoid allowing weeds to reproduce by seed or to proliferate vegetatively. Cleaning equipment between sites and avoiding movement of plant material between sites will greatly aid in retarding the spread of resistant weed seed. Consult your local company representative, state cooperative extension service, professional consultants or other qualified authorities to determine appropriate actions for treating specific resistant weeds.

Integrated Pest Management

This product may be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service. Professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

Cleaning Spray Equipment

Clean application equipment thoroughly by using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions and triple rinsing the equipment before and after applying this product.

Application Instructions

For best performance, apply this product to actively growing grass weeds that are within the height ranges specified in **Table 2.** Refer to **Table 2. Weeds Controlled** for a list of weed species controlled and best application timing based on weed size. The most effective control will result from making postemergence applications of this product early. Delaying application permits weeds to exceed the maximum size stated and may lead to inadequate control. Applications made to weeds larger than those listed on this label may vary from complete control to suppression. Level of control will depend on the weed species, stage of growth, and environmental conditions.

Due to the unplanned nature of rescue applications, choices must be made between the risks that arise from applications made beyond the proper time for this product use, and the effects of season-long weed competition or harvest complications. These choices must balance risks from improperly timed use of this product use that includes, but are not limited to:

- Yield lost due to competition: Research indicates competition from dense infestations of foxtail exceeding 4" tall may reduce corn yields. Applications to foxtail and other annual broadleaf weeds and grasses that exceed the sizes stated on the label increases the risk of yield losses due to prolonged competition with the crop even though control may be acceptable.
- Incomplete control of weeds at growth stages beyond labeled size: Applications to weeds that exceed the labeled sizes can result in reduced control. This incomplete control may reduce corn yield.
- Incomplete weed control due to herbicide stress: Weeds under stress from previous herbicide
 applications may not be actively growing and susceptible to Dicamba + Nico. This stress may reduce weed
 control in "rescue" situations.

For later-emerging weeds, a second application at the same rate or a timely cultivation may be required. Split applications may be made with a minimum of 15 days between sequential applications of this product. **Do not** exceed 6.6 ounces of this product (0.25 lb. dicamba a.e. and 0.062 lb. nicosulfuron) per treated acre per crop year.

Cultivation

Do not cultivate within 10 days before or 7 days after applying this product. Cultivating 7 - 14 days after application may help control suppressed weeds, weeds beyond maximum size at application, or weeds that emerge after applying.

Ground Application (Banding)

Follow **Ground Application (Broadcast)** instructions for band applications. When applying this product by banding, determine the amount of herbicide and water volume needed using the following formula:

-	Band width In inches Row width In inches	x	Broadcast RATE per treated acre	=	Band RATE per treated acre
-	Band width In inches Row width In inches	_ x	Broadcast VOLUME per treated acre	=	Band VOLUME Per treated acre

Ground Application Methods and Equipment (Broadcast)

Water Volume: Use a minimum of 10 gallons of spray solution per acre.

Application Equipment: Do not use flood, hollow cone, whirl chamber, or controlled droplet applicator (CDA) nozzles as erratic coverage can result in inconsistent weed control. Refer to the nozzle manufacturer's directions for recommended position of nozzle in respect to the crop.

Spray Drift Management

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions. AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

Importance of Droplet Size

Table 2, Weeds Controlled

The most effective way to reduce drift potential is to apply large droplets (>200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT MAY NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS! See **Wind**, **Temperature and Humidity**, **and Temperature Inversions** sections of this label.

<u>Controlling Droplet Size - General Techniques</u>

- **Volume** Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.
- **Nozzle Type** Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

Annual and Perennial Grasses: For best performance, apply this product when grasses are actively growing and in the height range indicated for those listed below:			
Grasses	Height Range	Grasses	Height Range
Barnyardgrass	2 - 4"	Panicum, Browntop	1 - 3"
Broadleaf Signalgrass	1 - 2"	, Fall	2 - 4"
Cupgrass, Woolly	2 - 4"	, Texas	1 - 3"
Foxtail, Bristly	2 - 4"	Ryegrass, Italian	2 - 6"
, Giant	2 - 4"	Sandbur, Field	1 - 3"
, Green	2 - 4"	, Longspine	1 - 3"

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, Yellow	2 - 4"	Shattercane	4 - 12"
Itchgrass	2 - 6"	Sorghum Almum	4 - 12"
Johnsongrass (seedling)	4 - 12"	Johnsongrass (rhizome)	8 - 18"
Millet, Wild Proso	1 - 4"	Quackgrass	4 - 10"
Oats, Wild	2 - 4"		

Annual Broadleaf Weeds:

For best performance, apply this product to emerged and actively growing annual broadleaf weeds. For the broadleaf weeds listed below, this product will also control triazine-resistant or ALS-resistant biotypes that may have developed:

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Beggarweed, Florida	Mallow, Common	Pigweed, Amaranth	Smartweed, Green
Buckwheat, Wild	, Venice	, Rough	, Pennsylvania
Buffalobur	Marestail	, Smooth	Smellmelon
Burclover, California	Morningglory, Entireleaf	, Tumble	Sowthistle
Burcucumber	, Ivyleaf	Puncturevine	Spikeweed, Common
Carpetweed	, Pitted	Purslane, Common	Spanish needles
Chickweed, Common	, Smallflower	Ragweed, Common	Spurge, Prostrate
Clovers (Annual)	, Tall	, Giant (Buffaloweed)	Sunflower, Common (Wild)
Cocklebur, Common	Mustard, Tansy	, Lance-Leaf	, volunteer
Croton, Tropic	,Wild	Rubberweed, Bitter	Thistle, Russian
Devil's Claw	, Yellowtops	(Bitterweed)	Velvetleaf
Jimsonweed	Nightshade, Black	Sesbania, Hemp	Waterhemp, Common
Knotweed	, Hairy	Shepherds purse	, Tall
Kochia	Pigweed, Prostrate	Sicklepod	
Ladysthumb	, Redroot	Sida, Prickly (Teaweed)	
Lambsquarters, Common	, Spiny		
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Perennial Broadleaf Weeds:

This product will also provide top growth suppression when applied as directed to perennial broadleaf weed species listed below. For best performance, apply this product to emerged and actively growing perennial broadleaf weeds.

Alfalfa	Dandelion, Common	Milkweed, Climbing	Pokeweed
Artichoke, Jerusalem	Dock, Broadleaf (Bitterdock)	, Common	Smartweed, Swamp
Bindweed, Field	, Curly	, Honeyvine	Sowthistle
, Hedge	Dogbane, Hemp	, Whorled	Thistle, Canada
Chicory	Horsenettle, Carolina	Nightshade, Silverleaf	Vetch
Clover, Hop	Knapweed, Spotted	(White Horsenettle)	
, White		Plantain, Broadleaf	

Wind

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID GUSTY OR WINDLESS CONDITIONS.

Note: Local terrain can influence wind patterns. The applicator should be familiar with local wind patterns and how these patterns affect spray drift.

Temperature and Humidity

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

Temperature Inversions

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterize by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be

identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an Inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Shielded Sprayers

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

Environmental Conditions and Biological Activity

Good weed control is heightened by warm, moist conditions (70°F or more) and adequate soil moisture both before and after application. The degree and duration of control depend on: application rate, weed spectrum, weed size, growing conditions before and after treatment, soil moisture, precipitation, and adjuvants. Stress affects all weeds, but especially weeds such as field sandbur, woolly cupgrass, green and yellow foxtail, and wild proso millet. If weeds are under stress, delay application of this product until the stress passes and weeds begin to grow again.

Applications made during or immediately after periods of extreme day/night temperature fluctuations or where daytime temperatures **do not** exceed 50°F may decrease weed control or increase crop Injury. If these conditions exist, delay application until the temperatures warm and both weeds and the crop resume normal growth.

Ensure that equipment is set up to avoid applying an excessive rate directly over the rows and onto the corn leaf whorl.

Use a minimum of 10 gallons of water per acre for light, scattered weed stands. Under heavy weed pressure, dense crop foliage or moisture stress, increase volume to at least 15 gallons of water per acre.

Ground application of this product to dry, dusty fields may reduce weed control in wheel track areas. Poor weed control or crop injury may result from applications made to plants under stress from:

- abnormally hot or cold weather;
- environmental conditions such as drought, water-saturated soils, hail damage, or frost;
- disease, insect, or nematode injury;
- prior herbicide, or carryover from a previous year's herbicide application.

Delay application until stress passes and both weeds and corn resume growth. Severe stress from conditions immediately following application may also result in crop injury or poor weed control.

As weeds mature, their sensitivity to this product decreases. As grassy weeds become mature (more than 3 tillers), they may be larger than the size listed in **Table 2.** When conditions exist where weeds are maturing rapidly, apply this product to weeds that are smaller than those listed in **Table 2.** Susceptible weeds are controlled in 7 - 21 days.

Additives

Applications of this product must include a nonionic surfactant and an ammonium nitrogen fertilizer.

Nonionic Surfactant (NIS)

Apply 1 - 2 quarts of NIS per 100 gallons of spray solution (0.25 - 0.5% v/v concentration). Use the higher rate in drought conditions to enhance control. At least 50% of the surfactant product must be active NIS. Avoid products that **do not** accurately define their ingredients. Products must contain only EPA-exempt ingredients (40 CFR 1001). Biodegradable products are encouraged. **Do not** use products that change the pH of the spray tank solution,

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Ammonium Nitrogen Fertilizer

Use 1 - 2 quarts of a high-quality liquid nitrogen fertilizer (such as 28-0-0) per acre. In place of liquid nitrogen fertilizer, 1 - 2 pounds (or liquid equivalent) of high quality spray-grade ammonium sulfate (such as 21-0-0) per acre may be applied.

Do not use liquid nitrogen fertilizers without nonionic surfactant.

Liquid nitrogen fertilizers should not be used as the total carrier solution.

Mixing Information

Additives and/or other pesticides may be mixed in the spray tank with this product using the information in this section.

Tank Mix Partners

The following herbicides may be tank mixed with this product according to the instructions in section **Crop-Specific Information.**

- Atrazine
- Mesotrione
- Topramezone

Other herbicides may be tank mixed provided that the tank mix label is registered for the crop being treated and the label does not prohibit such mixing with Nicosulfuron and/or Dicamba.

Read and follow the applicable **Restrictions and Limitations** and **Directions For Use** on all products involved in tank mixing. The most restrictive labeling applies to tank mixes.

Sequential applications should be made if all target weeds are not at the correct growth stage for treatment at the same time.

Refer to section **Crop-Specific Information** for more details on tank mixes and sequential applications.

Mixing with Insecticides

This product may also be tank mixed with pyrethroid insecticides such as **Zyrate**, **Asana**[®], **or Pounce**[®], as well as carbamate insecticides such as **Furadan**[®], **Nudrin**, and **Lannate**[®]. Note the tank mix restrictions below for insecticides that are not recommended in tank mixes with this product.

Physical incompatibility, reduced weed control, or crop injury may result from mixing this product with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. Rotam does not recommend using tank mixes other than those listed on Rotam labeling.

Tank Mix Restrictions and Limitations

- Do not tank mix this product with foliar-applied organophosphate insecticides such as Lorsban[®], malathion, parathion, etc., or Ambush[®] EC and Warrior[®] EC formulations, as severe crop injury may occur.
- **Do not** tank mix this product with emulsifiable concentrate (EC) formulations of chloroacetamide grass herbicides (i.e., **Dual II Magnum**[®], **Harness**[®], **Outlook**[®], **Surpass**[®]) as crop injury may occur.
- To avoid crop injury or antagonism, apply bentazon containing herbicides (such as **Basagran**® or **Laddok®S-12**), of organophosphate insecticides at least 7 days before or 3 days after applying this product.
- If antagonism occurs, complete control can be obtained with either a timely cultivation (see Cultivation) or a second application of this product (refer to Sequential Applications in section Crop-Specific Information).

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Compatibility Test for Mix Components

Before mixing additives and/or other pesticides, always perform a compatibility jar test.

For 20 gallons per acre spray volume, use 3.3 cups (800 mL) of water. For other spray volumes, adjust rates accordingly. Only use water from the intended source at the source temperature.

Add components in the sequence indicated in the **Mixing Order** using 2 teaspoons for each pound or 1 teaspoon for each pint.

Always cap the jar and invert 10 cycles between component additions.

When the components have all been added to the jar, let the solution stand for 15 minutes. Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. If the spray solution is not compatible, repeat the compatibility test with the addition of a suitable compatibility agent. If the solution is then compatible, use the compatibility agent as directed on its label. If the solution is still incompatible, **do not** mix the ingredients in the same tank.

Mixing Order

When mixing additives and/or other pesticides in a spray tank, add the products to be used in the following sequence.

- 1) Water. Begin by agitating a thoroughly clean sprayer tank three-quarters full of clean water.*
- 2) **Agitation.** Maintain constant agitation throughout mixing and application.
- 3) **Products in PVA bags.** Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- 4) **Water-dispersible products** (such as this product, dry flowables, wettable powders, suspension concentrates, or suspo-emulsions).
- 5) Water-soluble products.
- 6) Emulsifiable concentrates.
- 7) Water soluble additives. (such as AMS or UAN when applicable).
- 8) Remaining quantity of water. Maintain constant agitation during application.

*If the user prefers to fill the spray tank from a nurse tank containing an AMS product dissolved in water, this is acceptable. If this method is used, the AMS product must be totally dissolved before adding this product. This product must be thoroughly dissolved before adding additional products or additives. The user should verify that the AMS pre-mix water alternative is compatible with other tank mix components.

Restrictions and Limitations

- Maximum seasonal use rate: Do not apply more than 6.6 ounces of this product (0.25 lb. dicamba a.e. and 0.062 lb. nicosulfuron) per acre, per season.
- Sequential Applications: Do not apply sequential applications of Topeka, Banvel®, Clarity®, Distinct®, or Marksman® herbicide, within 15 days of an application of this product.
- **Do not** make more than 2 applications of this product per acre per season. Allow a minimum of **15 days** between applications.
- When using tank mixes or sequential applications:
 - The total amount of nicosulfuron (active ingredient) applied cannot exceed 0.062 pound per acre per application or per season.
 - The total amount of dicamba acid equivalent (active ingredient) applied cannot exceed 0.5 pound per acre per application or 0.75 pound per acre per season.

- Preharvest Interval: Do not apply within 32 days of forage harvest. Do not apply within 72 days of corn grain and stover harvest.
- Restricted Entry Interval (REI): 24 hours
- Crop Failure: In case of crop failure, only field corn or field corn grown for seed may be replanted.
- **Stress:** Poor weed control or crop injury may result from applying this product to plants under stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, or widely fluctuating temperatures.
- **Do not** apply to crops that show **injury** (leaf phytotoxicity or plant stunting) produced by any other prior herbicide applications, because this injury may be enhanced or prolonged.
- Rainfastness: For best performance, rainfall or irrigation should not occur for 4 hours after application.
- Do not apply through any type of irrigation equipment.
- **Do not** apply this product near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
- Prevent drift of spray to desirable plants.
- In fields infested with Johnsongrass or fields with a previous history of corn virus infection, a corn hybrid with a high degree of virus tolerance should be used. Consult your local seed corn representative for information on virus-tolerant hybrids.
- **Do not** apply on Long Island in the State of New York.
- **Do not** graze or feed forage from treated areas to livestock within 30 days of application.

Crop Rotation Guidelines:

- Rotational crops vary in their response to low concentrations of this product remaining in the soil. (refer to **Table 4.**) This product dissipates rapidly in warm, acidic, microbiologically active soils.
- The amount of this product which may be present in the soil depends on application rate, soil pH and organic matter content, elapsed time since application, crop production practices, and environmental factors.
- Injury to rotational crops may occur in high-pH, cold soils if dry weather prevails between application and rotational crop planting.
- Soil pH should be determined by laboratory analysis using the 1:1 soil:water suspension method on representative soil samples taken at 0 - 4" depth. Soil pH varies within fields; therefore, re-cropping should be based on the highest soil pH within each field, Consult local extension publications for recommended soil sampling procedures.

Table 3. Crop-Specific Restrictions and Limitations			
Crop	Minimum Time From Application to Harvest Per Application PHI Maximum Rate Per Acre Maximum Rate Per Acre Per Acre Per Application Per Season		Maximum Rate Per Acre Per Season
Field Corn, Seed Corn, Pop Corn	32 days (forage) 72 days (grain and stover)	3.3 ounces	6.6 ounces

Crop - Specific Information

Corn

This product may be used on field corn, Seed Corn, and Pop Corn (high lysine, waxy, white, or other food-grade corn hybrids). Apply this product at 3.3 ounces per acre. For best performance, apply this product to actively growing grass weeds that are within the height ranges specified in **Table 2.**

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Apply this product when corn is 4 to 24" tall (standing height). Apply this product with drop nozzles when corn exceeds 20" tall or has more than 6-leaf collars (V6), whichever is more restrictive. Avoid direct application of spray into the whorl of corn plants.

Corn Tank Mixes

<u>Dicamba 600 + Nico 150 SG plus Atrazine</u>

Tank mixes with atrazine may be used for additional foliar or soil-residual weed control. Use the higher rate indicated for extended soli residual control. Apply before corn exceeds the 12" (free standing) stage of growth.

<u>Dicamba 600 + Nico 150 SG plus Callisto®</u>

Tank mixes with Callisto may be used for additional control of broadleaf weeds and for improved residual control. Please refer to Callisto label for weeds controlled and application timing and crop heights.

<u>Dicamba 600 + Nico 150 SG plus Callisto Xtra®</u>

Tank mixes with Callisto Xtra may be used for additional control of broadleaf weeds and for improved residual control. Please refer to Callisto Xtra label for weeds controlled and application timing and crop heights.

Dicamba 600 + Nico 150 SG plus Impact®

Tank mixes with Impact may be used for additional control of broadleaf weeds and for improved residual control. Please refer to Impact label for weeds controlled and application timing and crop heights.

Sequential Applications

Sequential Applications with this product:

Annual broadleaf weeds and grasses may have more than one flush of emerging seedlings. Also, regrowth of treated broadleaf weeds grasses may occur due to adverse environmental conditions following application. Perennial grasses may regrow from underground stems or roots, depending upon environmental conditions.

To control these weeds under these conditions a sequential application of this product may be necessary. The combined dosage of the sequential applications must not exceed 6.6 ounces of this product per acre.

Sequential applications of 3.3 ounces of this product per acre must be separated by at least 15 days.

Sequential Applications with Other Herbicide:

This product may be applied to corn after use of preplant, pre-emergence, or early postemergence herbicides such as: atrazine, Topeka, Banvel®, Bicep®II Magnum, Clarity®, Dual II Magnum®, Outlook®, Guardsman® Max, Harness®, Marksman®, Surpass, Degree Extra, Lumax, Lexor, Callisto, or other herbicides registered for use on corn. A single application of this product may be made after using Topeka (up to 1 pint per acre), Banvel® (up to 1 pint per acre), Clarity® (up to 16 fluid ounces per acre), or Marksman® (up to 3.5 pints per acre). Sequential applications with Topeka, Banvel®, Clarity®, or Marksman® must be separated by at least 15 days.

18 months⁶

All other crops not listed.

Table 4. Rotational Crop Intervals

The following rotational intervals should be observed when using this product:				
Rotational Crop		Interval		
No soil pH restrictions				
Corn (Field, Seed)		1 week		
Corn (Pop, Sweet) ¹		10 months		
Soybeans		4 months		
Wheat (Winter)		4 months		
Wheat (Spring)		8 months		
Barley (Winter)		4 months		
Barley (Spring)		8 months		
Rye (Winter)		4 months		
Dry Beans		10 months		
Oats		8 months		
Cotton		10 months		
Peas, Snap Beans		10 months		
Alfalfa ²		12 months		
Red Clover ²		12 months		
Other Crops	See rotation	See rotational crop guidelines below		
with soil pH 7.5 restrictions	pH <u><</u> 7.5	pH ≤ 7.5 pH ≥ 7.5		
Sorghum	10 months	18 months ³		
Sunflowers	11 months ⁴	18 months		
with soil pH 6.5 restrictions	pH <u><</u> 6.5	pH <u><</u> 6.5		
Sugar beets ⁵	10 months	10 months 18 months ⁶		

¹ Except the sweet corn varieties "Merit", "Carnival", and "Sweet Success" for which the minimum time interval is 15 months.

10 months

⁴ Precipitation following application must exceed 14" prior to planting sunflowers.

² Except for the state of Kansas east of Highway 75, for Minnesota east and south of the Red River Valley, and for the states east of the line formed by the western borders of Iowa, Missouri, Arkansas, and Louisiana where the minimum time interval is 10 months.

³ Except in Texas and Oklahoma east of Highway 281 where the rotational interval is 10 months, regardless of pH.

⁵ Except on irrigated sites in Colorado, Wyoming, Nebraska, Texas, or in Michigan where precipitation following application must exceed 25" prior to planting beets where the interval is 10 months on soils with pH ≤ 7.5.

⁶ In North Dakota and northwest Minnesota, the cumulative precipitation in the 18 months following application must exceed 28" in order to rotate to sugar beets or potatoes.

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Broadleaf weeds listed in this label:			
Common Name	Scientific Name		
Alfalfa	Medicago sativa		
Artichoke, Jerusalem	Helianthus tuberosus		
Beggarweed, Florida	Desmodium tortuosum		
Bindweed, Field	Convolvulus arvensis		
, Hedge	Convolvulus sepium		
Buckwheat, Wild	Polygonum convolvulus		
Buffalobur	Solanum rostratum		
Burclover, California	Medicago polymorpha		
Burcucumber	Sicyos angulatus		
Carpetweed	Mollugo verticillata		
Chickweed, Common	Stellaria media		
Chicory	Cichorium intybus		
Clover, Hop	Trifolium aureum		
Clovers (Annual)	Trifolium sp.		
Cocklebur, Common	Xanthium strumarium		
Croton, Tropic	Croton glandulosus		
Dandelion, Common	Taraxacum officinale		
Devil's Claw	Proboscidea Iouisianica		
Dock, Broadleaf (Bitterdock)	Rumex obtusuifolium		
, Curly	Rumex crispus		
Dogbane, Hemp	Apocynum cannabinum Solanum carolinense		
Horsenettle, Carolina			
Jimsonweed	Datura stramonium		
Knapweed, Spotted	Centaurea maculosa		
Knotweed	Polygonum sp.		
Kochia	Kochia scoparia		
Ladysthumb	Polygonum persicaria		
Lambsquarters, Common Chenopodium album			
Mallow, Common Malva neglecta			
, Venice	Hibiscus trionum		
Marestail	Hippurus vulgaris		
Milkweed, Climbing	Sarcostemma cyanchoides		
, Common Asclepias syriaca			
, Honeyvine	Ampelamus albidus		
, Whorled (Eastern) Asclepias verticillata			
, Whorled (Western)	Asclepias subverticillata		
Morningglory, Entireleaf	Ipomoea hederacea		
, lvyleaf	Ipomoea hederacea		
, Pitted	Opomoea lacunosa		
, Smallflower	Jacquemontia tamnifolia		
, Tall	Ipomoea purpurea		
Mustard, Tansy	Brassica kaber		
,Wild	Ampelamus albidus		
, Yellowtops	Ascelepius subverticillata		
Nightshade, Black	Solanum nigrum		
, Hairy	Solanum sarrachoides		
, Silverleaf (White	Solanum elaeagnifolium		
Horsenettle)	-		
Pigweed, Palmer	Amaranthus palmeri		
, Prostrate	Amaranthus blitoides		
, Redroot (Carelessweed)	Amaranthus retroflexus		
, Smooth	Amaranthus hybridus		
, Spiny	Amaranthus spinosus		
, Tumble Amaranthus albus			
Plantain, Broadleaf	Plantago major		
Pokeweed	Phytolacca americana		
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Puncturevine	Tribulus terrestrius
Purslane, Common	Portulaca oleracea
Ragweed, Common	Ambrosia artemisifolia
, Giant (Buffaloweed)	Ambrosia trifida
, Lance-Leaf	Ambrosia bidentata
Rubber weed, Bitter (Bitterweed)	Hymenoxys odorata
Sesbania, Hemp	Sesbania exaltata
Shepherds purse	Capsella bursa-pastoris
Sicklepod	Cassia obtusifolia
Sida, Prickly (Teaweed)	Sida spinosa
Smartweed, Green	Polygonum lapathifolium
, Pennsylvania	Polygonum pensylvanicum
, Swamp	Polygonum coccineum
Smellmelon	Cucumis melo
Sowthistle, Annual	Sonchus oleraceus
, Perennial	Sonchus arvensis
Spikeweed, Common	Hemizonia pungens
Spanish needles	Bidens pinnata
Spurge, Prostrate	Euphorbia supina
Sunflower, Common (Wild)	Helianthus annuus
, Volunteer	Helianthus sp.
Thistle, Canada	Cirsium arvense
Thistle, Russian	Salsola iberica
Velvetleaf	Abutilon theophrastic
Vetch	Vicia sp.
Waterhemp, Common	Amaranthus rudis
, Tall	Amaranthus tuberculatus

Grasses listed in this label:	
Common Name	Scientific Name
Barnyardgrass	Echinochloa crus-gaflli
Cupgrass, Woolly	Echinochloa villosa
Foxtail, Bristly	Setaria verticillata
, Giant	Setaria faberi
, Green	Setaria viridis
, Yellow	Setaria lutescens
Itchgrass	Rottboellia exaltata
Johnsongrass (seedling)	Sorghum halepense
Johnsongrass (rhizome)	Sorghum halepense
Millet, Wild Proso	Panicum miliaceum
Oats, Wild	Avena sativa
Panicum, Browntop	Panicum fasciculatum
, Fall	Panicum dichotomiflorum
, Texas	Panicum texanum
Quackgrass	Agropyron repens
Ryegrass, Italian	Lolium multi arum
Sandbur, Field	Cenchrus incertus
, Longspine	Cenchrus longispinus
Shattercane	Sorghum bicolor
Signalgrass, Broadleaf	Brachiaria platyphylla
Sorghum Almum	Sorghum almum Parodi

Crops This product can be used on the following crops: Field Corn, Seed Corn, and Pop Corn Look inside for complete Restrictions and Limitations and Application Instructions.

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